

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Durga Patil

GENERAL INFORMATION:

Name:	Polymer Partners, LLC
Address:	1450 Commonwealth Drive Henderson, KY 42420
Date application received:	1/22/2008
SIC Code/SIC description:	3087, Custom Compounding of Purchased Plastics Resins
Source ID:	21-101-00125
Agency Interest:	1831
Activity:	APE20080001
Permit:	F-08-009

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

**EMISSIONS SUMMARY:**

<b>Pollutant</b>	<b>Actual (tpy)</b>	<b>Potential (tpy)</b>
PM <sub>10</sub> = PT	0.30	195.01
VOC	1.40	0.42
Single HAP	< 9	< 9
Total HAPs:	< 22.5	< 22.5

Note: The above table shows the actual amount of pollutant emitted exceeds the potential to emit for VOC. This maybe due to the fact that actual emissions relate to data gathered from 2006 emissions inventory, before the changes were made to the process while the potential to emit is based on the changes made during permit revision F-03-012 R1. Actual emissions data from the emissions inventory for the year 2007 needs to be compared with the potential to emit, which will be made available in mid 2008.

**SOURCE DESCRIPTION:**

The Polymer Partners (previously named Clariant) located at 1450 Commonwealth Drive, Henderson, Kentucky, manufactures black plastic color concentrates through a process of compounding various polymer resins with carbon black, calcium carbonate and/or other filler materials. Physical processes taking place include pneumatically feeding raw materials from silos and dump stations equipped to handle super sacks of carbon black and plastic resins into hoppers on the compounding lines. Thermal processes include the heating of the polymer resin and additives to product specific temperature and mixing in the compounding line. The finished product is fed to a pelletizer and dewatering system. On January 22, 2008, the Division for Air Quality received an application for a renewal to the permit F-03-012 R1, with no new construction or revisions to the permit. Construction authorized by permit F-03-012 R1 is not complete but is on going. Polymer Partners will continue to operate in compliance with 401 KAR 52:030 of federally enforceable permits for non-major sources.

**EMISSION AND OPERATING CAPS DESCRIPTION:**

The actual emissions of HAPs for a single pollutant shall not exceed 9.0 tons per year. The combined emissions for HAPs shall not exceed 22.5 tons per year. The actual VOC emissions shall not exceed 90.0 tons per year. Emission limitations for particulate matter are pursuant to regulation 401 KAR 59:010, Section 3 (2). These annual limitations shall not be exceeded during any consecutive twelve months period for the entire source.

**OPERATIONAL FLEXIBILITY:**

NONE